

## ABSTRACT

The rotating drum 2 rotates around an axial line A that is inclined to the horizontal at a preset angle  $\theta$ . Process gas  
5 flows into the rotating drum 2 from an air vent 7a of an air duct 7 through an air inlet 5 at one end of the rotating drum 2, passes through a layer of granules 11, and flows out into an air outlet duct 8 through an air vent 21a of a first disc plate 21 and a connection hole 22a in a second disc plate 22.

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